### **AMENDMENTS TO THE CLAIMS:**

Please amend the claims as follows. This listing of claims will replace all prior listings.

# 1-2 (CANCELED)

- 3. (CURRENTLY AMENDED) The vortex generator as recited in claim † 21, wherein said surface comprises a rotating aerodynamic surface, said plurality of vorticity generating protuberances located generally parallel to a feathering axis.
- 4. (CURRENTLY AMENDED) The vortex generator as recited in claim † 21, wherein said surface comprises a rotor blade, said plurality of vorticity generating protuberances located generally parallel to a feathering axis.
- 5. (CURRENTLY AMENDED) The vortex generator as recited in claim ± 21, wherein said plurality of vorticity generating protuberances comprise deployable members.

### 6-11. (CANCELED)

- 12. (CURRENTLY AMENDED) A method as recited in claim 11 26, wherein step (1) further comprises locating a plurality of vorticity generating protuberances on a tip of a rotating member which generates the primary tip vortex.
- 13. (CURRENTLY AMENDED) A method as recited in claim 11 26, wherein step (1) further comprises locating a plurality of vorticity generating protuberances on a tip of a fixed member which generates the primary tip vortex.

14. (CURRENTLY AMENDED) A method as recited in claim 11 26, further comprising the step of:

selectively extending a vorticity generating protuberances from a tip which generates the primary tip vortex.

## 15-18. (CANCELED)

19. (CURRENTLY AMENDED) A method as recited in claim ++ 26, further comprising the step of:

selectively extending a vorticity generating protuberance from a tip of a rotor blade which generates the primary tip vortex in response to an azimuthally position of the rotor blade.

20. (CURRENTLY AMENDED) A method as recited in claim 11 26, wherein step (1) further comprises locating a plurality of vorticity generating protuberances on a distal end between an upper and lower aerodynamic surface of a tip which generates the primary tip vortex.

## 21. (PREVIOUSLY PRESENTED)

A vortex generator for a surface which generates a primary tip vortex, said vortex generator comprising:

a plurality of vorticity generating protuberances defined upon a distal end of a tip defined between an upper and lower aerodynamic surface to generate small-scale vortices that are ingested and at least partially entrained within a forming core of the primary tip vortex as the primary tip vortex develops from the tip such that a decay rate of the core is accelerated, wherein said plurality of vorticity generating protuberances are of a scale commensurate to a boundary layer thickness.

22. (CURRENTLY AMENDED) A vortex generator for a surface which generates a primary tip vortex, said vortex generator comprising:

a plurality of vorticity generating protuberances defined upon a distal end of a tip defined between an upper and lower aerodynamic surface to generate small-scale vortices that are ingested and at least partially entrained within a forming core of the primary tip vortex as the primary tip vortex develops from the tip such that a decay rate of the core is accelerated, said plurality of vorticity generating protuberances include a multiple of multiple pins.

23. (CURRENTLY AMENDED) A vortex generator for a surface which generates a primary tip vortex, said vortex generator comprising:

a plurality of vorticity generating protuberances defined upon a distal end of a tip defined between an upper and lower aerodynamic surface to generate small-scale vortices that are ingested and at least partially entrained within a forming core of the primary tip vortex as the primary tip vortex develops from the tip such that a decay rate of the core is accelerated, said plurality of vorticity generating protuberances include a multiple of multiple vortex plows.

24. (CURRENTLY AMENDED) A vortex generator for a surface which generates a primary tip vortex, said vortex generator comprising:

a plurality of vorticity generating protuberances defined upon a distal end of a tip defined between an upper and lower aerodynamic surface to generate small-scale vortices that are ingested and at least partially entrained within a forming core of the primary tip vortex as the primary tip vortex develops from the tip such that a decay rate of the core is accelerated, said plurality of vorticity generating protuberances include a multiple of multiple vortex ramps.

- 25. (PREVIOUSLY PRESENTED) A method of accelerating diffusion of a primary tip vortex comprising the step of:
- (1) generating small-scale vortices from a distal end of a surface that are ingested and at least partially entrained within a forming core of the primary tip vortex as the primary tip

vortex develops from the tip to destabilize the core of the primary tip vortex such that a decay rate of the core is accelerated while maintaining the primary tip vortex as a single vortex with the core being increasing diffused downstream of the tip.

- 26. (PREVIOUSLY PRESENTED) A method of accelerating diffusion of a primary tip vortex comprising the step of:
- (1) generating small-scale vortices from within the core of the primary tip vortex from a distal end of a surface that are ingested and at least partially entrained within a forming core of the primary tip vortex as the primary tip vortex develops from the tip to destabilize the core of the primary tip vortex such that a decay rate of the core is accelerated.
- 27. (PREVIOUSLY PRESENTED) A method of accelerating diffusion of a primary tip vortex comprising the step of:
- (1) generating a single primary tip vortex from a distal end of a rotary aerodynamic surface;
- (2) generating small-scale vortices from a distal end of the aerodynamic surface that are ingested and at least partially entrained within a forming core of the single primary tip vortex as the primary tip vortex develops from the tip;
- (3) maintaining the single primary tip vortex while accelerating a decay rate of the core by the ingested small-scale vortices generated in said step (2).